

Amendments to the Specification:

At page 5, lines 10-13, please amend the specification as shown:

~~Fig. 1 illustrates a computer system used for implementing various embodiments of the present invention.~~

Figs. 12-4 illustrate different Direct Acyclic Graphs for solving matching problems in a content-based publish-subscribe system.

At page 5, lines 19 through page 6, line 4, please amend the specification as shown:

~~Referring to Fig. 1,~~ a computer graphics processing system 100 includes a two-dimensional graphical display (also referred to as a "screen") 102 and a central processing unit 104. The central processing unit 104 contains a microprocessor and random access memory for storing programs. A disk drive 106 for loading programs may also be provided. A keyboard 108 having a plurality of keys thereon is connected to the central processing unit 104, and a pointing device such as a mouse 110 is also connected to the central processing unit. It will also be understood by those having skill in the art that one or more (including all) of the elements/steps of the present invention may be implemented using software executing on a general purpose computer graphics processing system, using special purpose hardware-based computer graphics processing systems, or using combinations of special purpose hardware and software.

At page 9, lines 1-3, please amend the specification as shown:

Referring to Fig. 21, one example of a DAG 10 is shown, illustrating a matching process for assisting a subscriber to match an event based on its predetermined predicates.

At page 9, lines 15-16, please amend the specification as shown:

Referring now to Fig. 32, another DAG 22 matches an event with a subscriber S2.

At page 10, lines 1-3, please amend the specification as shown:

Fig. ~~4~~3 illustrates a more complicated DAG 32 where subscribers S1, S2, and S3 have different subscription predicates, some portion of which are commonly shared.

At page 10, lines 16-21, please amend the specification as shown:

In a fashion similar to the processes as described in Figs. ~~2~~1 and ~~3~~2, S1 (node 44) is matched with the event when node 40 representing test C gives a *FALSE* value, and S3 (node 46) is matched if either the node 40 evaluates to a *TRUE* or the node 40 evaluates to a *FALSE* or *NULL* and the node 42 further evaluates to a *TRUE*. S2 (node 48), is matched if test A renders a *FALSE*, or through a longer path that traverses nodes 50 and 52.

At page 15, lines 15-17, please amend the specification as shown:

The concept is illustrated by Fig. ~~2~~1, which represents the subscription A AND B AND C.